



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

FEROOF Co. Ltd.

**8 Seonwon-2 gil, Seonnam-myeon, Sungju-gun,
Gyeongsangbukdo Republic of Korea 719-832**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Diva, Zissen, Rio, Rio EZ, Slate, Wood, Veneto1 and Veneto 2 Metal Roof Panels

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 12.

The submitted documentation was reviewed by Gaspar J Rodriguez.



NOA No.: 15-0720.01
Expiration Date: 04/21/21
Approval Date: 04/21/16
Page 1 of 12

ROOFING SYSTEM APPROVAL:

Category:	Roofing
Sub-Category:	Metal, Panels (Non-Structural)
Material:	Steel
Deck Type:	Wood
Maximum Design Pressure:	See Assemblies below

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Slate	52.8" x 16.1" 50.8" x 14.6" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Veneto 1	50.6" x 16.1" 47.8" x 14.4" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Wood	52.6" x 16.3" 50.4" x 14.6" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Rio	53" x 16.1" 50.4" x 14.6" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Zissen	53.7" x 16.3" 50.4" x 14.6" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Rio EZ	53" x 16.1" 50.4" x 14.6" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Diva	53" x 16.3" 50.4" x 14.6" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile
Veneto 2	50.6" x 16.5" 47.8" x 15" (installed coverage) Thickness: 26 GA Minimum Yield Strength: 56 KSI	TAS 100	Stone Chip Coated Steel Roof Tile



MANUFACTURING LOCATION

1. Gyeongsangbukdo, Republic of Korea

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
PRI Construction Materials Technologies, LLC	FERF-002-02-01	ASTM B 117	12/12/14
	FERF-002-02-02	ASTM G 155	12/11/14
	FERF-003-02-01.2	TAS 125	03/23/15
	FERF-003-02-02.1	TAS 100	03/23/15
	FERF-004-02-01.2	TAS 125	03/23/15
	FERF-004-02-02.1	TAS 100	03/23/15



APPROVED ASSEMBLIES:

System A:	Veneto 1 Tile, Wood Tile, Diva Tile, and Slate Tile
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction $1\frac{9}{32}$ " or greater plywood or wood plank, or Re-roof $1\frac{5}{32}$ " or greater plywood or wood plank.
Slope Range:	2:12 or greater
Maximum Uplift Pressure:	See Fastening Options Below

Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than; Field condition 8d annular ring shank nails spaced 6" OC and Perimeter and Corner condition #8 x 2" wood screws spaced at 6"OC. In reroofing, where the deck is less than $1\frac{9}{32}$ " thick (minimum $1\frac{5}{32}$ ") the above attachment method must be in addition to existing attachment.
Underlayment:	ASTM D 226 Type II. Underlayment installed with minimum 4-inch side-lap and 6-inch end-laps and fastened with 12 GA, 1-1/4" ring shank nails and 32 GA, 1-5/8" tin caps spaced 6" o.c. in the laps and two staggered rows 12" o.c. in the field or any approved underlayment having a current NOA.
Fire Barrier Board:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with FeRoof Co., Ltd. current published installation instructions.
Metal Panels and Accessories:	Install the panel and accessories in compliance with FERROOF Co., LTD current, published installation instructions and details. Flashings, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133.
Field Condition:	Installed direct-to-deck with minimum five (5) #9 HWH wood screws per panel along back flange into the deck with a minimum penetration of 3/16" spaced approximately 10" o.c. and five (5) #9 x 1-1/2" HWH wood screws per panel secured through the vertical leg of the panel overlap spaced approximately 10" o.c. (panel to panel connection). One (1) fastener is located at the lap and the remaining four (4) in the field of the panel. See Specimen #1 for fastener location.
Maximum Design Pressure for Field Condition:	-52.5 PSF (See General Limitation #2)
Perimeter and Corner Condition:	Installed direct-to-deck with minimum twelve (12) #9 HWH wood screws per panel along back flange into the deck with a minimum penetration of 3/16" and minimum twelve (12) #9 x 1-1/2" HWH wood screws per panel secured through the vertical leg of the panel overlap (panel to panel connection). Two (2) fasteners are located at the lap and the remaining ten (10) in the field of the panel. See Specimen #2 for Fastener location.
Maximum Design Pressure for Perimeter and Corner Condition:	-127.5 PSF (See General Limitation #2)



System B:	Veneto II, Rio, Rio EZ, Wood, Slate Tile, Diva Tile, and Zissen Tile
Deck Type:	Wood, Non-insulated
Deck Description:	New Construction $1\frac{9}{32}$ " or greater plywood or wood plank, or Re-roof $1\frac{5}{32}$ " or greater plywood or wood plank.
Slope Range:	2:12 or greater
Maximum Uplift Pressure:	See Fastening Options Below
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than; Field condition 8d annular ring shank nails spaced 6" OC and Perimeter and Corner condition #8 x 2" wood screws spaced at 6"OC. In reroofing, where the deck is less than $1\frac{9}{32}$ " thick (minimum $1\frac{5}{32}$ ") the above attachment method must be in addition to existing attachment.
Underlayment:	ASTM D 226 Type II. Underlayment installed with minimum 4-inch side-lap and 6-inch end-laps and fastened with 12 GA, 1-1/4" ring shank nails and 32 GA, 1-5/8" tin caps spaced 6" o.c. in the laps and two staggered rows 12" o.c. in the field or any approved underlayment having a current NOA.
Fire Barrier Board:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Battens Field Condition:	Install minimum 2" x 2" wood battens over underlayment, perpendicular to roof slope, under each head lap at approximately 14-3/5" o.c. with one (1) #10 x 4" bugle head wood screw at each batten/truss intersection (max 24" o.c.).
Battens Perimeter and Corner Condition:	Install minimum 2" x 2" wood battens over underlayment, perpendicular to roof slope, under each head lap at approximately 14-3/5" o.c. with one (1) #10 x 4" bugle head wood screw at each batten/truss intersection (max 24" o.c.) and one (1) #10 x 4" bugle head screw at 8" o.c. between trusses.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with FeRoof Co., Ltd. current published installation instructions.
Metal Panels and Accessories:	Install the "FEROOF Co., LTD" panels and accessories in compliance with FEROOFF Co., LTD current published installation instructions and details. Flashings, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided in Roofing Application Standard RAS 133.
Field Condition:	Panels are secured to the batten with minimum five (5) #9 x 1-1/2" HWH wood screws per panel located in the vertical leg of the panel overlap at approximately 10" o.c. One fastener is located at the lap and the remaining four (4) in the field of the panel. See Specimen #3 for fastener location.
Maximum Design Pressure for Field Condition:	-120 PSF (See General Limitation #2)
Perimeter and Corner Condition:	Panels are secured to the batten with minimum twelve (12) #9 x 1-1/2" HWH wood screws per panel located in the vertical leg of the panel overlap. Two (2) fasteners are located at the lap and the remaining ten (10) in the field of the panel. See Specimen #4 for fastener location.
Maximum Design Pressure for Perimeter and Corner Condition:	-165 PSF (See General Limitation #2)



LIMITATIONS:

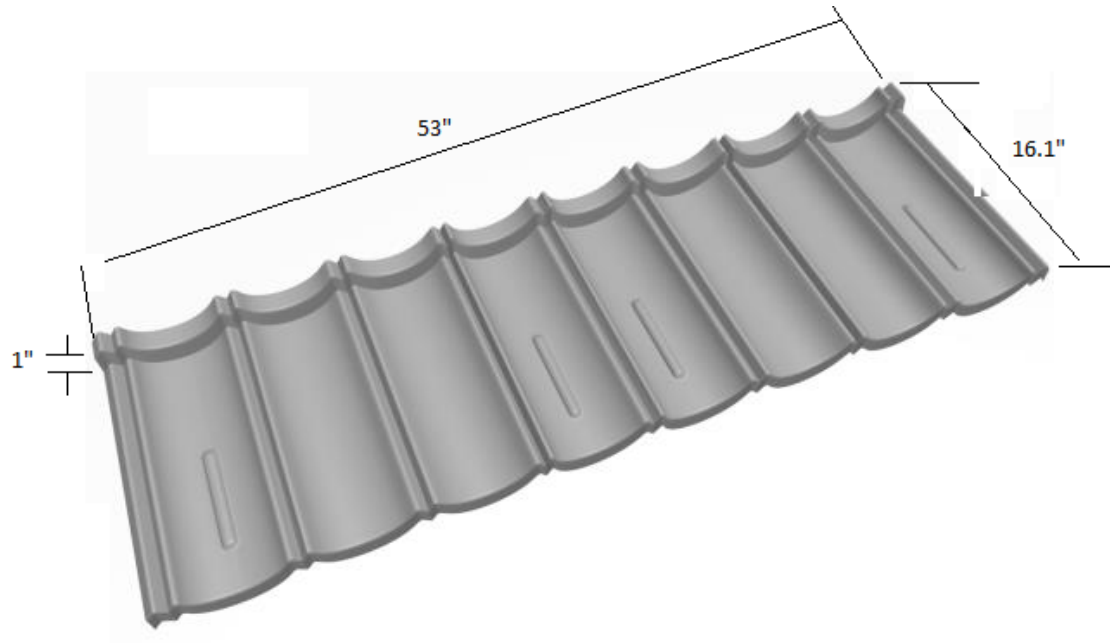
1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
3. All panels shall be permanently labeled with the manufacturer's name and/or logo, city and state of manufacturing facility, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below.



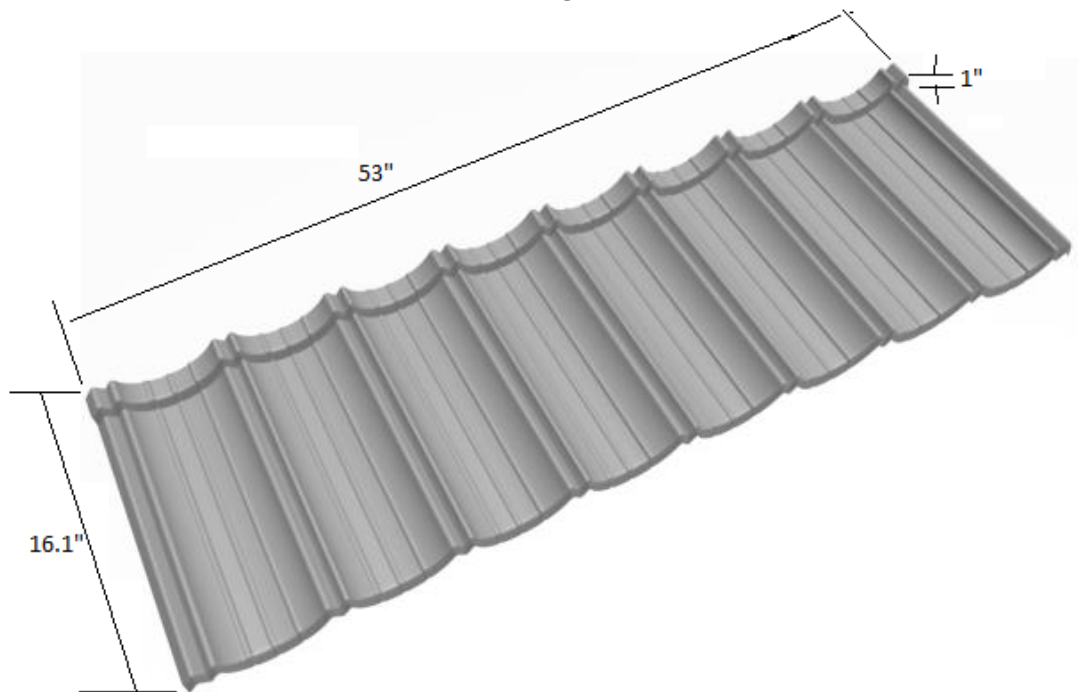
4. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



PROFILE DRAWINGS:

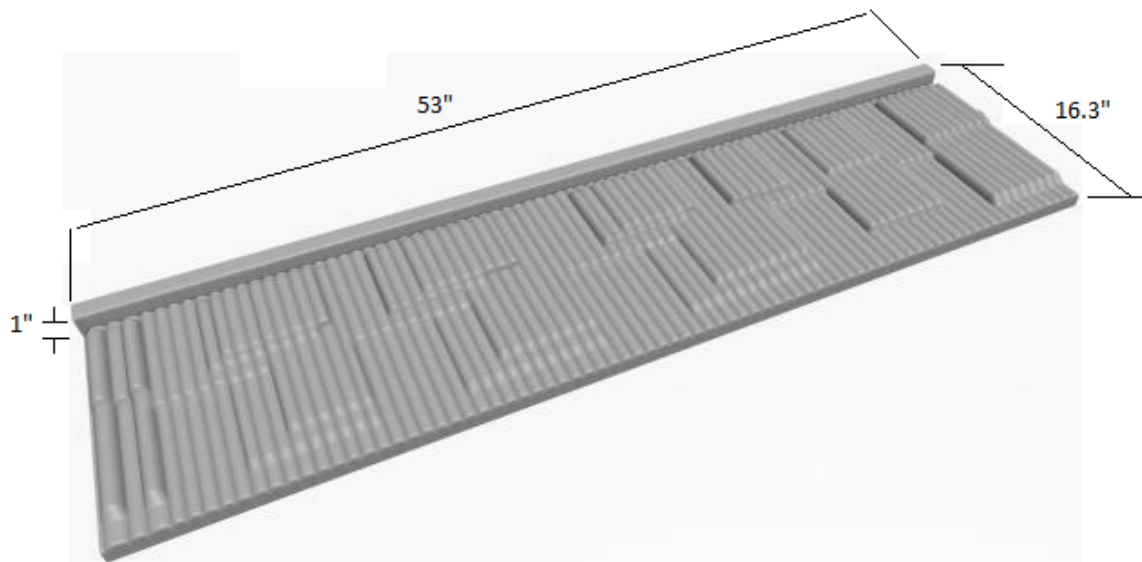


Rio

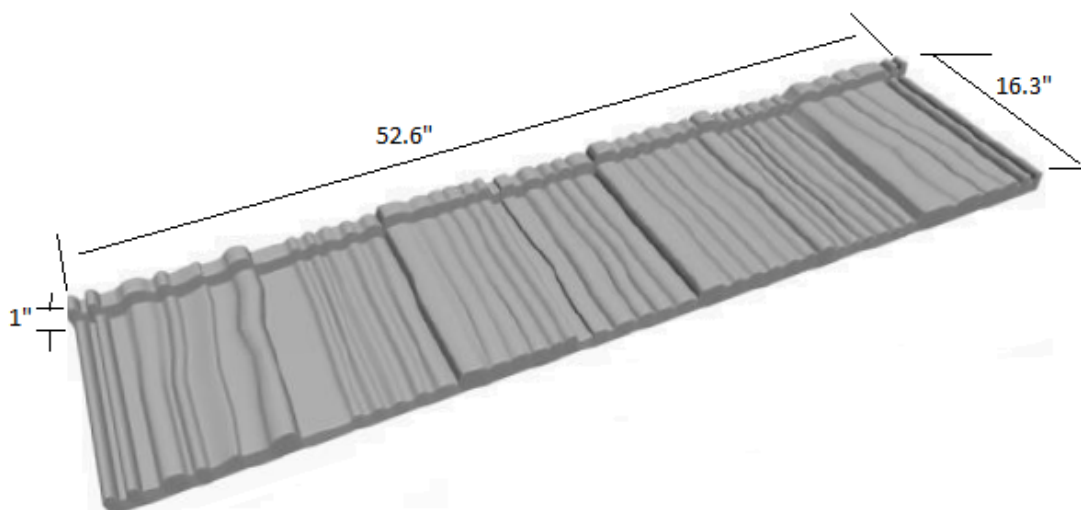


Rio EZ

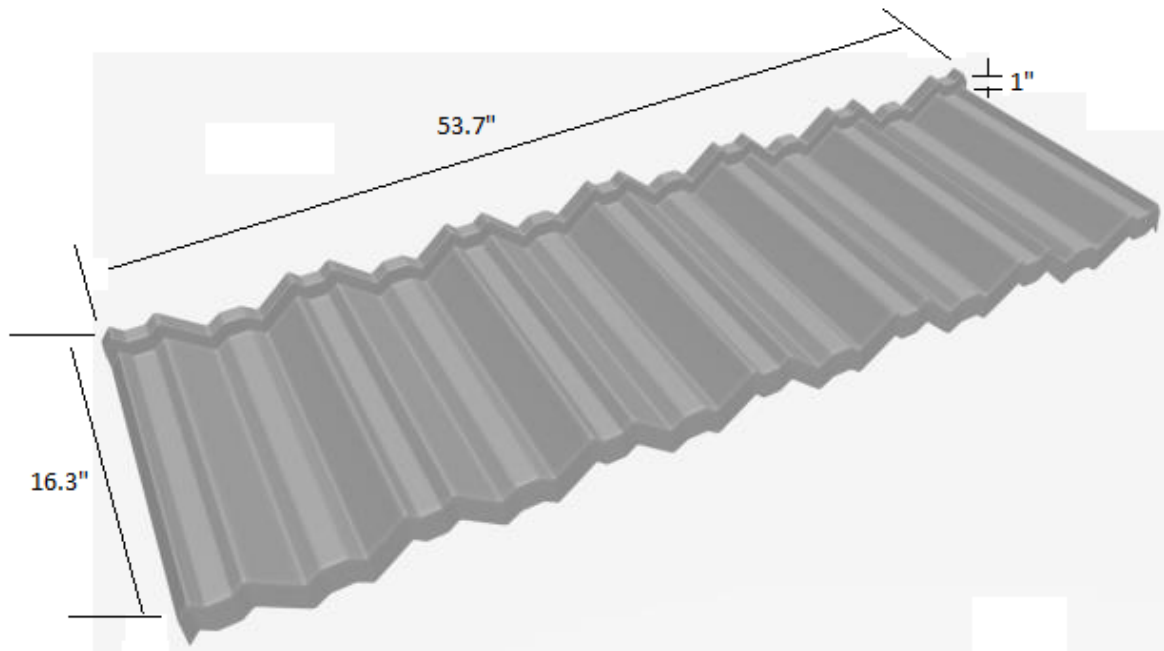




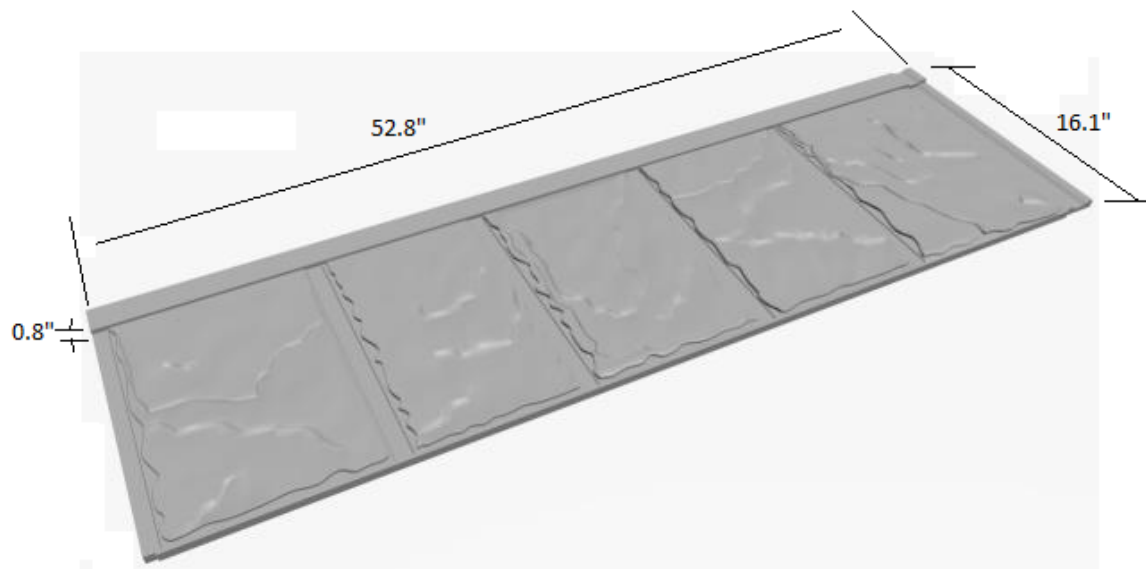
DIVA



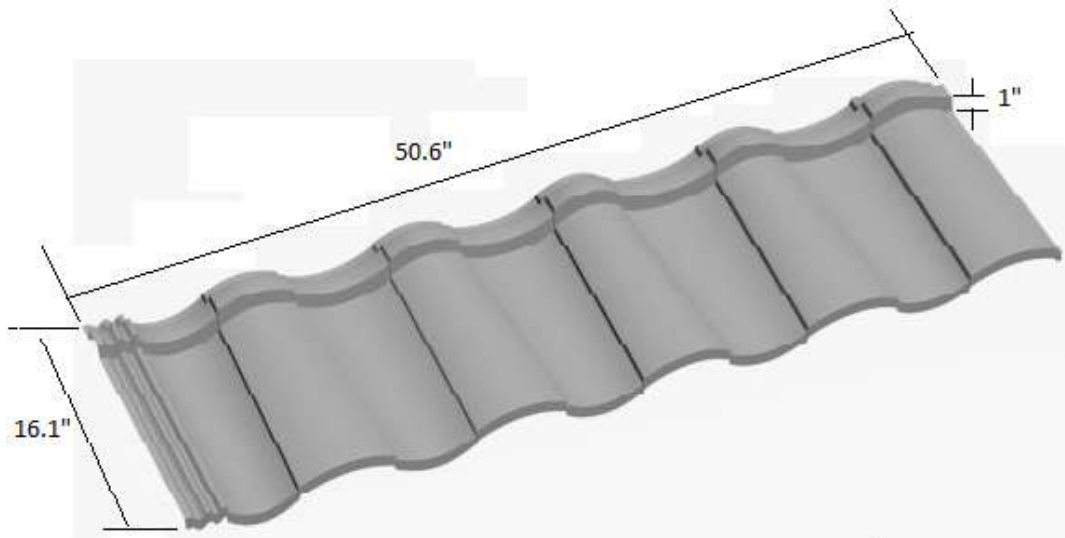
WOOD



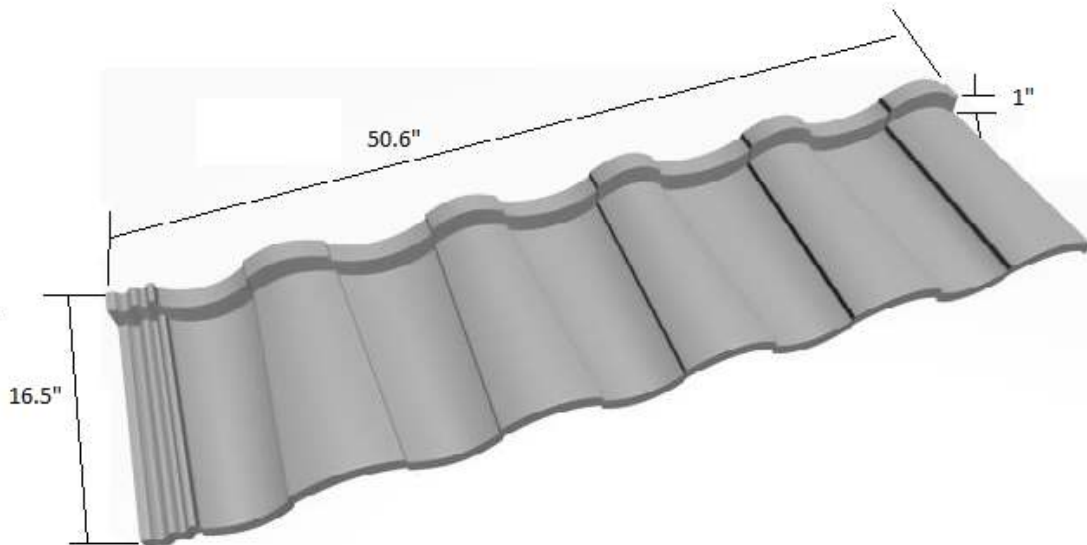
ZISSEN



SLATE



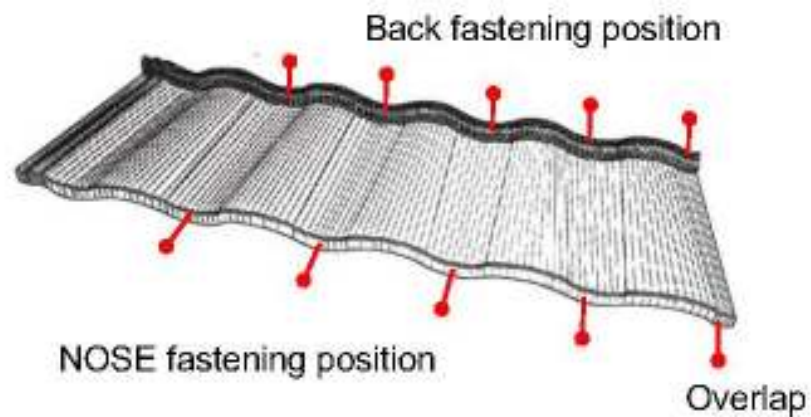
VENETO 1



VENETO 2

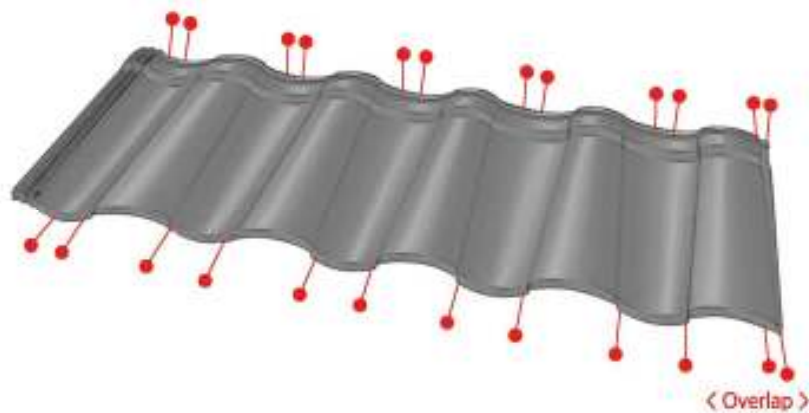


Specimen #1 Fastener Location

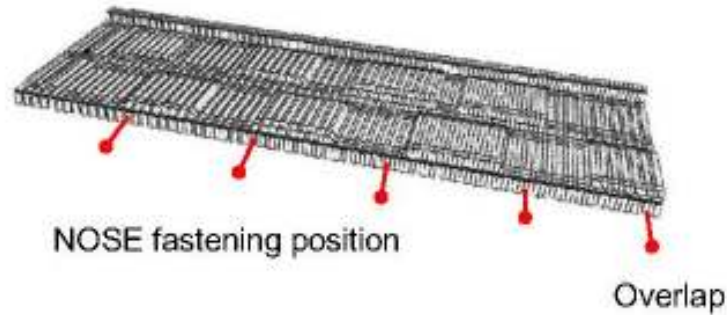


* 5 fasteners in nose and 5 in back. Evenly spaced with one fastener front and back through side laps. Place nose fasteners in the low part of the front downturn close to deck.

Specimen #2 Fastener Location

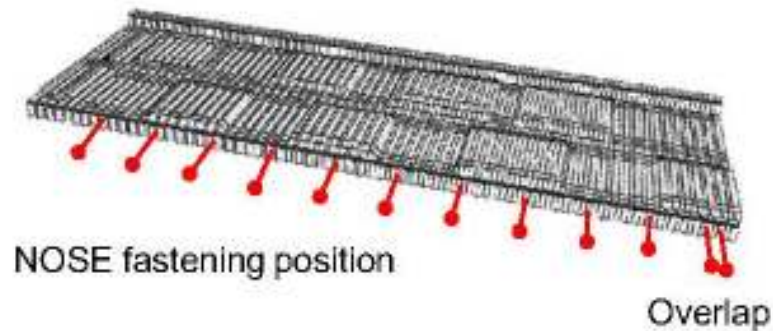


Specimen #3 Fastener Location



* With one fastener at the side lap and the remaining fasteners spaced as evenly as possible in the lower part of the front downturn close to the batten.

Specimen #4 Fastener Location



* With two fasteners at the side lap and the remaining fasteners spaced as evenly as possible in the lower part of the front downturn close to the batten.

END OF THIS ACCEPTANCE